BRUHAT BENGALURU MAHANAGARA PALIKE

MEASUREMENT SHEET

RA 1ST AND FINAL BILL

Name of work: Improvements to Roads and Drains in Cross Roads of Bhadrappa Layout and Surrounding areas in Ward No. 12, (Kodigehalli).

Estimated Cost : Rs. 75.00 Lakhs

Head of Account : P-3726 Zonal Public Works - POW Works

Job Code: 012-23-000006

Name of Agency: Sri Nagoor Lokaadha Reddy, Flat No. 102, 1st Flooor, No. 02 MSNR Enclave, 2nd Cross, Manorayana Palya, RT Nagar Post, Bangalore - 560032.

Work order No: BBMP/EE/BTP/WO/174/2022-23 D: 15-03-2023.

Measurements Recarded on : 17-06-2023

Sl No	Description of work	Mesurement No.	L	B	D	Qty.	Unit	Rate	Amount
1	Earth work Excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work.								
	Qty as per Pre-measurement Recorded vide E-Bill Page No.01 to 03 is =					**903.00**	Cum	214.00	**193242.00**
2	Providing and laying in position Plain Cement Concrete Mix 1:3:6 (M10) for levelling course for all works in foundation. Using 40 mm nominal size graded crushed coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications.								
	Qty as per Pre-measurement Recorded vide E-Bill Page No. 04 to 05 is =					**96.07**	Cum	6414.00	**616193.00**
3	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. M20 (The cost of steel reinforcement & formwork to be paid separately)								
	Qty as per Pre-measurement Recorded vide E-Bill Page No. 06 to 08 is =					**214.41**	Cum	7237.00	**1551685.00**
4	Supplying, Fitting and Placing un-coated TMT bar Reinforcement in sub-structure complete as per Drawing and Technical Specifications.								
	Qty as per Pre-measurement Recorded vide E-Bill Page No. 09 is =					**13.13**	Tonne	106456.00	**1397767.00**

Sl No	Description of work	Mesurement No.	L	B	D	Qty.	Unit	Rate	Amount
5	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite / trap / basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately **Mix 1:3:6 (M10) Using 20 mm nominal size graded crushed coarse aggregate**								
	Qty as per Pre-measurement Recorded vide E-Bill Page No. 10 to 11 is =					**38.37**	Cum	6615.00	**253818.00**
6	Providing and constructing load bearing wall with Solid Concrete blocks of size 400x150x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications								
	Qty as per Pre-measurement Recorded vide E-Bill Page No. 12 is =					**104.00**	Sqm	1232.00	**128128.00**
7	Providing and Fixing pre cast Covering Slab made out of CC 1:2:4 with **100 mm** thick and Finishing cutting, including form work,curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc, complete.								
	Covering Slab								
	Sahaja Pride Apartment E/S Road, 6th Cross Balaji Layout								
	E/S	1	15.00	0.90		13.50			
		1	15.00	0.90		13.50			
		1	15.00	0.90		13.50			
		1	6.95	0.90		6.25			
		1	4.80	0.90		4.32			
		1	4.90	0.90		4.41			
		1	15.00	0.90		13.50			
		1	6.70	0.90		6.03			
		1	7.20	0.90		6.48			
	W/S								
		1	15.00	0.90		13.50			
		1	15.00	0.90		13.50			
		1	15.00	0.90		13.50			
		1	5.50	0.90		4.95			
		1	0.80	0.90		0.72			
		1	5.10	0.90		4.59			
		1	15.00	0.90		13.50			
		1	2.70	0.90		2.43			
		1	2.90	0.90		2.61			
		1	13.45	0.90		12.10			
		1	7.30	0.90		6.57			
	Newton Public School N/S Road, Bhadrappa Layout								
	N/S	1	9.40	0.90		8.46			
		1	13.40	0.90		12.06			
		1	9.40	0.90		8.46			
	S/S	1	9.40	0.90		8.46			
		1	12.90	0.90		11.61			
	Newton Public School E/S Road, Bhadrappa Layout					218.51			

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Sl No	Description of work	Mesurement No.	L	B	D	Qty.	Unit	Rate	Amount
	E/S	1	15.00	0.90		13.50			
		1	15.00	0.90		13.50			
		1	4.20	0.90		3.78			
		1	1.80	0.90		1.62			
		1	15.00	0.90		13.50			
		1	15.00	0.90		13.50			
		1	11.50	0.90		10.35			
	W/S								
		1	8.70	0.90		7.83			
		1	15.00	0.90		13.50			
		1	10.00	0.90		9.00			
		1	15.00	0.90		13.50			
		1	2.80	0.90		2.52			
	Newton Publice School Cross Road 2, Bhadrappa Layout								
	N/S	1	9.00	0.90		8.10			
		1	10.20	0.90		9.18			
		1	6.30	0.90		5.67			
		1	10.00	0.90		9.00			
	S/S								
		1	9.10	0.90		8.19			
		1	19.00	0.90		17.10			
		1	12.00	0.90		10.80			
	Vepaate Residency Road, Balaji Layout								
	N/S	1	15.00	0.75		11.25			
		1	13.00	0.75		9.75			
	S/S								
		1	3.40	0.75		2.55			
	Chowdeshwari Layout 2nd Main								
	E/S	1	16.00	0.90		14.40			
	S/S	1	30.00	0.90		27.00			
		1	30.00	0.90		27.00			
		1	30.00	0.90		27.00			
		1	30.00	0.90		27.00			
		1	23.00	0.90		20.70			
	N/S								
		1	16.00	0.90		14.40			
	6th Cross Balaji Layout Sham Charitable Clinic Road								
		1	30.00	1.20		36.00			
		1	30.00	1.20		36.00			
		1	30.00	1.20		36.00			
		1	30.00	1.20		36.00			
		1	7.00	1.20		8.40			
		-1	8.00	1.20		-9.60			
		-1	15.00	1.20		-18.00			
		-1	4.60	1.20		-5.52			
	6th Cross Balaji Layout Sri Venkateshwara Hot Chips Shop opp Road								
		1	30.00	1.20		36.00			
		1	30.00	1.20		36.00			
		1	20.70	1.20		24.84			
	Ganesha Temple Main Road, Badarappa Layout 2nd Cross E/S					581.31			

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Sl No	Description of work	Mesurement				Qty.	Unit	Rate	Amount
		No.	L	B	D				
	E/S	1	15.00	0.90		13.50			
		1	15.00	0.90		13.50			
		1	15.00	0.90		13.50			
		1	12.00	0.90		10.80			
		1	15.00	0.90		13.50			
		1	12.00	0.90		10.80			
	W/S	1	14.00	0.90		12.60			
	Ratna Residences Road, Balaji Layout								
	N/S								
		1	15.00	0.75		11.25			
		1	7.00	0.75		5.25			
	Iron Bird Elevators Road, Balaji Layout								
	N/S	1	15.00	0.75		11.25			
		1	11.00	0.75		8.25			
	S/S								
		1	15.00	0.90		13.50			
		1	11.00	0.90		9.90			
	Natural beauty saloon Road, Balaji Layout								
	N/S	1	3.10	0.90		2.79			
		1	6.00	0.90		5.40			
	S/S								
		1	15.00	0.90		13.50			
		1	11.00	0.90		9.90			
		-1	5.30	0.90		-4.77			
		Total Qty =				**974.24**			
		Qty Limited to Tender Qry =				**973.80**	Sqm	2175.00	**2118015.00**

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Sl No	Description of work	Mesurement				Qty.	Unit	Rate	Amount
		No.	L	B	D				
	Measurements Recarded on :	17-06-2023							
8	Providing and Fixing pre cast Covering Slab made out of CC 1:2:4 with **230 mm** thick and Finishing cutting, including form work,curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc, complete.								
	Culvert Slab								
	Newton Public School 1st Cross	1	6.10	1.50		9.15			
	Newton Public School 2nd Cross	1	6.20	1.50		9.30			
	Newton Public School 3rd Cross	1	6.20	1.50		9.30			
		Total Qty =				**27.75**			
		Qty Limited to Tender Qry =				**25.20**	Sqm	5288.00	**133258.00**

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Sl No	Description of work	Mesurement No.	L	B	D	Qty.	Unit	Rate	Amount
	Measurements Recarded on :	17.06.2023							
9	Providing granite slabs of selected quality roughly dressed having a size of 7.5 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete								
	For Covering Slab								
	Sahaja Pride Apartment E/S Road	1	7.35		0.90	6.62			
		1	5.30		0.90	4.77			
		1	12.30		0.90	11.07			
	Newton Public School 2nd Cross								
	N/S	1	10.80		0.90	9.72			
		1	8.70		0.90	7.83			
		1	15.00		0.90	13.50			
		1	10.00		0.90	9.00			
	S/S								
		1	3.50		0.90	3.15			
		1	9.50		0.90	8.55			
			82.45						
		Total Qty =				**74.21**			
		Qty Limited to Tender Qry =				**73.80**	Sqm	779.00	**57490.00**
10	KSRB 5-9 : Providing chamfering edges to stone slab 2.5 cms. wide as per specifications. (only chamfered length shall be recorded)								
		137	3.00			**412.25**			
						410.00	Mtrs	64.00	**26240.00**
11	Loading and Unloading of Stone Boulder / Stone aggregates / Sand / Kankar / Moorum. (Tipper 14 m3)								
	Qty Vide 90% of Item No- (1)					808.19			
	Total					**808.19**	Cum	85.00	**68696.00**
12	Cost of Haulage Excluding Loading and Unloading Taking output 18 t load and lead 10 km = 180 t.km								
	Qty frm Item No-11		808.19	1.28		1034.47			
	Total					**1034.47**	T.Km	121.00	**125171.00**
								Grand Total	**6669703.00**
								GST Charges (18% of Executed cost)	**1200547.00**
								Total Amount	**7870250.00**

Round off 7870000.00

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